

according to Regulation (EC) No 1907/2006

## NATURAL ISOAMYL ALCOHOL

Revision date: 28.09.2022

Product code: 205730

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## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

NATURAL ISOAMYL ALCOHOL

Substance name:	NATURAL ISOAMYL ALCOHOL
REACH Registration Number:	01-2119493725-26-XXXX
CAS No:	123-51-3
Index No:	603-006-00-7
EC No:	204-633-5

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### Use of the substance/mixture

Manufacturing of: - Air care products - Perfumes, fragrances - Pharmaceuticals - Cosmetics, personal care products - Flavouring Substances - Other

#### 1.3. Details of the supplier of the safety data sheet

	Company name:	Axxence Aromatic GmbH	
	Street:	Tackenweide 28	
	Place:	D-46446 Emmerich am Rhein	
	Telephone:	+ 49 2822 68561 0	Telefax: + 49 2822 68561 39
	E-mail:	info@axxence.com	
	Contact person:	Safety Team	Telephone: + 49 2822 68561 0
	E-mail:	safety-documentation@axxence.com	
	Internet:	www.axxence.de	
	Responsible Department:	Safety Management	
۱.	4. Emergency telephone	+49 2822 68561 99	

## number:

SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

### Regulation (EC) No 1272/2008 Flam. Liq. 3; H226 Acute Tox. 4; H332

Skin Irrit. 2; H315 Eye Dam. 1; H318 STOT SE 3; H335

Full text of hazard statements: see SECTION 16.

Danger

## 2.2. Label elements

## Regulation (EC) No 1272/2008

Signal word:

Pictograms:



#### **Hazard statements**

H226	Flammable liquid and vapour.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.



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## **Precautionary statements**

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting equipment.
P242	Use non-sparking tools.
P243	Take action to prevent static discharges.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash hands thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P302+P352	IF ON SKIN: Wash with plenty of Water and soap.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312	Call a POISON CENTER/doctor if you feel unwell.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor.
P233	Keep container tightly closed.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container to organic waste.

### Special labelling of certain mixtures EUH066 Repeated e

Repeated exposure may cause skin dryness or cracking.

## 2.3. Other hazards

No information available.

## **SECTION 3: Composition/information on ingredients**

## 3.1. Substances

Sum formula:	C5 H12 O
Molecular weight:	88,15 g/mol

## **Relevant ingredients**

CAS No	Chemical name	Chemical name			
	EC No Index No REACH No				
	Classification (Regulation (EC) No 1272/2008)				
123-51-3	NATURAL ISOAMYL ALCOHO	NATURAL ISOAMYL ALCOHOL			
	204-633-5 603-006-00-7 01-2119493725-26-XXXX				
	Flam. Liq. 3, Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1, STOT SE 3; H226 H332 H315 H318 H335 EUH066				

Full text of H and EUH statements: see section 16.



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#### Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Conc. L	imits, M-factors and ATE	
123-51-3	204-633-5	NATURAL ISOAMYL ALCOHOL	100 %
	inhalation: ATE = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: LD50 = 3216 mg/kg; oral: LD50 = >5000 mg/kg		

#### **SECTION 4: First aid measures**

## 4.1. Description of first aid measures

#### After inhalation

Provide fresh air. When in doubt or if symptoms are observed, get medical advice.

#### After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention.

#### After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

#### After ingestion

Observe risk of aspiration if vomiting occurs. Rinse mouth immediately and drink 1 glass of of water.

## 4.2. Most important symptoms and effects, both acute and delayed

No information available.

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

#### Suitable extinguishing media

Water spray jet, Carbon dioxide (CO2), Foam, Extinguishing powder.

## 5.2. Special hazards arising from the substance or mixture

Flammable. Vapours can form explosive mixtures with air.

## 5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

#### Additional information

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

## **SECTION 6: Accidental release measures**

## 6.1. Personal precautions, protective equipment and emergency procedures

#### General advice

Remove all sources of ignition. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

#### 6.2. Environmental precautions

Do not allow uncontrolled discharge of product into the environment. Explosion risk.

### 6.3. Methods and material for containment and cleaning up

## For cleaning up

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

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### Other information

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

### 6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

## **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

#### Advice on safe handling

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

#### Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Vapours can form explosive mixtures with air.

#### Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat, drink, smoke, sniff. Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat, drink, smoke, sniff.

#### 7.2. Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Keep container tightly closed. Keep locked up. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaustion at critical locations. Keep in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

#### Hints on joint storage

Do not store together with: Oxidizing agent. Pyrophoric or self-heating substances.

## 7.3. Specific end use(s)

Manufacturing of: - Air care products - Perfumes, fragrances - Pharmaceuticals - Cosmetics, personal care products - Flavouring Substances - Other

#### **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

#### **Occupational exposure limit values**

CAS No	Name of agent	ppm	mg/m³	fib/cm³	Category	Origin
123-51-3	Isoamyl alcohol	5	18		TWA (8 h)	
		10	37		STEL (15 min)	



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## **DNEL/DMEL** values

CAS No	Name of agent					
DNEL type		Exposure route	Effect	Value		
123-51-3	NATURAL ISOAMYL ALCOHOL					
Worker DNEL	Worker DNEL, long-term     inhalation     local     73,16 mg/m³					
Worker DNEL, acute		inhalation	local	292 mg/m³		
Consumer DNEL, long-term		inhalation	local	13 mg/m³		
Consumer DNEL, acute		inhalation	local	218 mg/m³		
Consumer DNEL, long-term		oral	systemic	12,5 mg/kg bw/day		

### 8.2. Exposure controls









### Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

### Individual protection measures, such as personal protective equipment

#### Eye/face protection

Suitable eye protection: goggles.

## Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Suitable gloves type: Butyl caoutchouc (butyl rubber) / FKM (fluoro rubber)

#### Skin protection

Use of protective clothing.

#### **Respiratory protection**

In case of inadequate ventilation wear respiratory protection.

## **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

Physical state: Colour:
Melting point/freezing point: Boiling point or initial boiling point and
Flammability:
Upper explosion limits:
Flash point: Auto-ignition temperature:
1 1
Melting point/freezing point: Boiling point or initial boiling point and boiling range: Flammability: Lower explosion limits: Upper explosion limits: Flash point:



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Viscosity / kinematic:	5,32 mm²/s			
(at 20 °C)				
Water solubility:	28 g/l			
(at 20 °C)				
Solubility in other solvents				
not determined				
Partition coefficient n-octanol/water:	1,28			
Vapour pressure:	3 hPa			
(at 20 °C)				
Vapour pressure:	23,6 hPa			
(at 50 °C)				
Density (at 20 °C):	0,81 g/cm³			
Relative vapour density:	3,04			
(at 20 °C)				
9.2. Other information				
Information with regard to physical hazard classe	es a la companya de l			
Explosive properties				
not explosive according to EU A.14				
Oxidizing properties				
The product is not: oxidising.				
Other safety characteristics				
Evaporation rate:	not determined			
Solvent content:	0%			
Solid content:	0%			
Viscosity / dynamic:	4,33 mPa·s			
(at 20 °C)	T,00 III 4 3			

## **SECTION 10: Stability and reactivity**

## 10.1. Reactivity

Flammable.

#### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

## 10.3. Possibility of hazardous reactions

No known hazardous reactions.

### 10.4. Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapours can form explosive mixtures with air.

#### 10.5. Incompatible materials

No information available.

#### 10.6. Hazardous decomposition products

No known hazardous decomposition products.

## **SECTION 11: Toxicological information**

## 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute toxicity

Harmful if inhaled.



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CAS No	Chemical name					
	Exposure route	Dose		Species	Source	Method
123-51-3	NATURAL ISOAMYL ALCOHOL					
	oral	LD50 mg/kg	>5000	Rat	REACH Dossier	
	dermal	LD50 mg/kg	3216	Rabbit	REACH Dossier	
	inhalation vapour	ATE	11 mg/l			
	inhalation dust/mist	ATE	1,5 mg/l			

#### Irritation and corrosivity

Skin corrosion/irritation: Causes skin irritation. Serious eye damage/eye irritation: Causes serious eye damage. Repeated exposure may cause skin dryness or cracking.

#### Sensitising effects

Based on available data, the classification criteria are not met.

### Carcinogenic/mutagenic/toxic effects for reproduction

Germ cell mutagenicity: Based on available data, the classification criteria are not met. Carcinogenicity: Based on available data, the classification criteria are not met. Reproductive toxicity: Based on available data, the classification criteria are not met.

### STOT-single exposure

May cause respiratory irritation. (NATURAL ISOAMYL ALCOHOL)

#### STOT-repeated exposure

Based on available data, the classification criteria are not met.

## Aspiration hazard

Based on available data, the classification criteria are not met.

## 11.2. Information on other hazards

Endocrine disrupting properties

No information available.

## Further information

This substance is classified as hazardous according to Regulation (EC) No 1272 (2008).

## **SECTION 12: Ecological information**

## 12.1. Toxicity

## The product is not: Ecotoxic.

CAS No	Chemical name						
	Aquatic toxicity	Dose		[h]   [d]	Species	Source	Method
123-51-3	NATURAL ISOAMYL ALCOHOL						
	Acute fish toxicity	LC50	700 mg/l	96 h	Oncorhynchus mykiss	REACH Dossier	
	Acute algae toxicity	ErC50 mg/l	>500		Desmodesmus subspiatus	REACH Dossier	
	Acute crustacea toxicity	EC50	255 mg/l	48 h	Daphnia magna	REACH Dossier	
	Acute bacteria toxicity	EC50 mg/l()	>1000	3 h	Activated sludge	REACH Registration	

## 12.2. Persistence and degradability

The product has not been tested.



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CAS No	Chemical name					
	Method	Value	d	Source		
	Evaluation	·		·		
123-51-3	NATURAL ISOAMYL ALCOHOL					
	OECD 301 F	84%	27	REACH Registration		
	Readily biodegradable (according to OECD criteria).					
	OECD 301F	82%	11	REACH Registration		
	Readily biodegradable (according to OECD criteria).					
	OECD 301F	47%	5	REACH Registration		
	Readily biodegradable (according to OECD criteria	).				

## 12.3. Bioaccumulative potential

The product has not been tested.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
123-51-3	NATURAL ISOAMYL ALCOHOL	1,28

#### 12.4. Mobility in soil

The product has not been tested.

#### 12.5. Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

The product has not been tested.

## 12.6. Endocrine disrupting properties

This substance does not have endocrine disrupting properties with respect to non-target organisms.

#### 12.7. Other adverse effects

No information available.

#### **Further information**

Avoid release to the environment.

#### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

#### **Disposal recommendations**

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

#### List of Wastes Code - residues/unused products

160305 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; off-specification batches and unused products; organic wastes containing hazardous substances; hazardous waste

#### List of Wastes Code - used product

160305 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; off-specification batches and unused products; organic wastes containing hazardous substances; hazardous waste

#### List of Wastes Code - contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

### Contaminated packaging

Wash with plenty of water. Completely emptied packages can be recycled.

## **SECTION 14: Transport information**

#### Land transport (ADR/RID)



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14.1. UN number or ID number: 14.2. UN proper shipping name: 14.3. Transport hazard class(es): 14.4. Packing group: Hazard label:	UN 1105 PENTANOLS 3 III 3	
Classification code: Limited quantity: Excepted quantity: Transport category: Hazard No: Tunnel restriction code: <b>Other applicable information (land tran</b> E1	F1 5 L E1 3 30 D/E sport)	
Inland waterways transport (ADN)		
<u>14.1. UN number or ID number:</u> 14.2. UN proper shipping name:	UN 1105 PENTANOLS	
14.3. Transport hazard class(es):	3	
<u>14.4. Packing group:</u> Hazard label:		
Classification code:	F1	
Limited quantity: Excepted quantity:	5 L E1	
Other applicable information (inland wa		
Marine transport (IMDG)		
14.1. UN number or ID number: 14.2. UN proper shipping name: 14.3. Transport hazard class(es): 14.4. Packing group: Hazard label:	UN 1105 PENTANOLS 3 III 3	
Special Provisions: Limited quantity: Excepted quantity: EmS:	223 5 L E1 F-E, S-D	
Air transport (ICAO-TI/IATA-DGR) <u>14.1. UN number or ID number:</u> <u>14.2. UN proper shipping name:</u> <u>14.3. Transport hazard class(es):</u> <u>14.4. Packing group:</u> Hazard label:	UN 1105 PENTANOLS 3 III 3	

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<u> </u>		
	NATURAL ISOAMYL ALCOHOL	
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Special Provisions:	A3	
Limited quantity Passenger:	10 L	
Passenger LQ:	Y344	
Excepted quantity:	E1	
IATA-packing instructions - Passenger:	355	
IATA-max. quantity - Passenger:	60 L	
IATA-packing instructions - Cargo: IATA-max. quantity - Cargo:	366 220 L	
	220 L	
14.5. Environmental hazards		
ENVIRONMENTALLY HAZARDOUS:	No	
<ul> <li><u>14.6. Special precautions for user</u></li> <li>Warning: Combustible liquid.</li> <li><u>14.7. Maritime transport in bulk according to</u></li> <li>not applicable</li> </ul>	IMO instruments	
SECTION 15: Regulatory information		
15.1. Safety, health and environmental regulation	ations/legislation specific for the substance or mixture	
<b>EU regulatory information</b> Restrictions on use (REACH, annex XVII): Entry 3, Entry 40		
Directive 2010/75/EU on industrial emissions:	100 % (810 g/l)	
Directive 2004/42/EC on VOC in paints and varnishes:	100 % (810 g/l)	
Information according to Directive 2012/18/EU (SEVESO III):	P5c FLAMMABLE LIQUIDS	
National regulatory information		
Employment restrictions:	Observe restrictions to employment for juveniles according to the 'juve work protection guideline' (94/33/EC).	nile
Water hazard class (D):	1 - slightly hazardous to water	
15.2 Chamical safety assessment		

### 15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

## **SECTION 16: Other information**

## Changes

This data sheet contains changes from the previous version in section(s): 1,2,4,5,6,7,8,9,10,11,13,15,16.



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### Abbreviations and acronyms

Flam. Liq: Flammable liquid Acute Tox: Acute toxicity Skin Irrit: Skin irritation Eye Dam: Eye damage STOT SE: Specific target organ toxicity - single exposure ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonized System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service LC50: Lethal concentration. 50% LD50: Lethal dose, 50% CLP: Classification, labelling and Packaging REACH: Registration, Evaluation and Authorization of Chemicals GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals UN: United Nations **DNEL: Derived No Effect Level** DMEL: Derived Minimal Effect Level PNEC: Predicted No Effect Concentration ATE: Acute toxicity estimate LL50: Lethal loading, 50% EL50: Effect loading, 50% EC50: Effective Concentration 50% ErC50: Effective Concentration 50%, growth rate NOEC: No Observed Effect Concentration BCF: Bio-concentration factor PBT: persistent, bioaccumulative, toxic vPvB: very persistent, very bioaccumulative RID: Regulations concerning the international carriage of dangerous goods by rail ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures) EmS: Emergency Schedules MFAG: Medical First Aid Guide ICAO: International Civil Aviation Organization MARPOL: International Convention for the Prevention of Marine Pollution from Ships IBC: Intermediate Bulk Container VOC: Volatile Organic Compounds SVHC: Substance of Very High Concern For abbreviations and acronyms, see table at http://abbrev.esdscom.eu For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations). Relevant H and EUH statements (number and full text) H226 Flammable liquid and vapour. H315 Causes skin irritation. H318 Causes serious eye damage.

## H332 Harmful if inhaled.

- H335 May cause respiratory irritation.
- EUH066 Repeated exposure may cause skin dryness or cracking.

#### **Further Information**

The information is based on the present level of our knowledge. It does not, however, give assurance of

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product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.